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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---------------------------|---------------------------------|----------------------|---------------------|------------------|--|
| 10/533,860 | 05/05/2005 | Sandrine Touchais | 28944/40153 | 7883 | |
| | 7590 03/26/200 & FRANK LLP | EXAMINER | | | |
| 311 S. WACKE | | PERILLA, JASON M | | | |
| SUITE 2500 CHICAGO, IL | 60606 | | ART UNIT | PAPER NUMBER | |
| | | | 2611 | | |
| | | | | | |
| | | | MAIL DATE | DELIVERY MODE | |
| | | | 03/26/2008 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| Office Action Occurrence | | Applicatio | pplication No. Applicant(s) | | | | | | |
|---|--|---|---|--|---|-------------|--|--|--|
| | | 10/533,860 |) | TOUCHAIS ET AL. | | | | | |
| Office Action Summary | | | Examiner | | Art Unit | | | | |
| | | | JASON M. | PERILLA | 2611 | | | | |
| Period fo | The MAILING DATE of this commu or Reply | nication app | ears on the | cover sheet with the | correspondence a | ddress | | | |
| WHIC - Exter after - If NC - Failu Any r | ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SOLEN TO STATE OF THE INSIGN OF TH | MAILING DA s of 37 CFR 1.13 munication. tatutory period w y will, by statute, | ATE OF TH 66(a). In no ever ill apply and will cause the appli | S COMMUNICATIOnt, however, may a reply be to expire SIX (6) MONTHS from cation to become ABANDON | N. mely filed n the mailing date of this of ED (35 U.S.C. § 133). | · | | | |
| Status | | | | | | | | | |
| 1) 又 | Responsive to communication(s) file | ed on 14 Fe | hruary 200 | 8 | | | | | |
| • | | 2b)⊠ This | - | | | | | | |
| 3) | | <i>'—</i> | | | osecution as to th | e merits is | | | |
| ٥/١ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | | |
| | · | iloo uridor E | n parto Que | 1970, 1000 0.0. 11, 1 | 00 0.0. 210. | | | | |
| Dispositi | on of Claims | | | | | | | | |
| 4)🛛 | Claim(s) <u>1-31</u> is/are pending in the application. | | | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | | |
| 5) | Claim(s) is/are allowed. | | | | | | | | |
| 6)🖂 | ∑ Claim(s) <u>23-31</u> is/are rejected. | | | | | | | | |
| · | ☑ Claim(s) <u>1-22</u> is/are objected to. | | | | | | | | |
| • | Claim(s) are subject to restri | ction and/or | election re | quirement. | | | | | |
| | on Papers | | | | | | | | |
| | • | | _ | | | | | | |
| • | The specification is objected to by the | | | l ar h\□ abiaatad ta | by the Eveniner | | | | |
| 10)[| The drawing(s) filed on <u>05 May 2003</u> | | | | | | | | |
| | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| | Replacement drawing sheet(s) including | _ | - | | - | , , | | | |
| 11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | | |
| Priority u | ınder 35 U.S.C. § 119 | | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | | |
| 2) Notic 3) Inform | t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date | | | 4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other: | Date | | | | |

Art Unit: 2611

DETAILED ACTION

1. Claims 1-31 are pending in the instant application.

Claim Objections

- Claims 1, 2, 11, and 12 are objected to because of the following informalities:
 Regarding claim 1, the claim is objected to because it is unclear and nearly indefinite. The following version of claim 1 is proposed to overcome the claim objection.
 - 1. A method of training a device for linearizing a radiofrequency amplifier which is included within a radiofrequency transmitter of a first equipment of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols, the method comprising the steps consisting in:
 - a) generating a linearization training sequence comprising a determined number N
 of symbols, where N is a determined integer;
 - b) transmitting the linearization training sequence by means of the transmitter in at least certain of the bursts transmitted by the latter;
 - c) comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train said linearization device,

characterized in that at least a determined number N1 of symbols of the linearization training sequence sent first, where N1 is a determined integer less than or equal to N, belong to a subalphabet of symbols included within said alphabet of symbols, said subalphabet of symbols consisting of symbols which, in isolation or combination, give the burst produce a narrower spectrum than respective to said alphabet of symbols as a whole.

Regarding claim 2, in line 5, "or N2" should be replaced by --wherein N2--.

Regarding claim 11, the claim is objected to for the same reasons as applied to claim 1 above.

Regarding claim 12, the claim is objected to for the same reasons as applied to claim 2 above.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. § 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 23-26 are rejected under 35 U.S.C. § 101 because they claim nonstatutory subject matter.

Regarding claim 23, the claim is rejected because it claims "a linearization training sequence" which is not a process (i.e. method), machine or device, item of manufacture, or composition of matter. Rather, the sequence is only a sequence of voltage levels representing bits or symbols. The sequence could be considered to be data or, perhaps, pure software. (Pure software not being recognized as a composition of matter.) In either case, information, data, and software is non-statutory subject matter *per se*.

Regarding claims 24-31, the claims are rejected as being based upon a rejected parent claim.

Allowable Subject Matter

4. Claims 1-22 are indicated to contain allowable subject matter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON M. PERILLA whose telephone number is (571)272-3055. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason M Perilla/ Primary Examiner, Art Unit 2611 March 20, 2008